

Title (en)
Ultrasonic densitometer and method

Title (de)
Ultraschall-Dichtemessgerät und Verfahren

Title (fr)
Appareil de mesure de la densité à ultrason et procédé

Publication
EP 0728443 A2 19960828 (EN)

Application
EP 96103815 A 19890509

Priority
• EP 89304664 A 19890509
• US 19329588 A 19880511

Abstract (en)
An ultrasonic densitometer for measuring physical properties and integrity of a skeletal member in vivo has at least one transducer (21) and electrical means for launching an ultrasound pulse, detecting receipt of the pulse and determining a parameter therefrom. The densitometer may determine transit time through the member and compare with a database value, or may determine absolute attenuation at one or more frequencies and perform a comparison based on attenuation.

IPC 1-7
A61B 8/00; **G01N 29/00**

IPC 8 full level
G01N 29/00 (2006.01); **A61B 5/00** (2006.01); **A61B 8/00** (2006.01); **A61B 8/08** (2006.01); **G01N 29/06** (2006.01); **G01N 29/07** (2006.01); **G01N 29/11** (2006.01); **G01N 29/22** (2006.01); **G01N 29/24** (2006.01); **G01N 29/28** (2006.01); **G01N 29/34** (2006.01)

CPC (source: EP KR US)
A61B 8/00 (2013.01 - KR); **A61B 8/0875** (2013.01 - EP US); **G01N 29/0609** (2013.01 - EP US); **G01N 29/07** (2013.01 - EP US); **G01N 29/11** (2013.01 - EP US); **G01N 29/24** (2013.01 - EP US); **G01N 29/348** (2013.01 - EP US); **G01N 2291/011** (2013.01 - EP US); **G01N 2291/015** (2013.01 - EP US); **G01N 2291/02483** (2013.01 - EP US); **G01N 2291/106** (2013.01 - EP US)

Cited by
GB2356932A

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0341969 A2 19891115; **EP 0341969 A3 19900912**; AU 3467289 A 19891123; AU 609686 B2 19910502; CA 1323090 C 19931012; DE 68929055 D1 19990916; DE 68929055 T2 20000127; DE 68929239 D1 20000914; DE 68929239 T2 20010125; EP 0721765 A2 19960717; EP 0721765 A3 19960731; EP 0721765 B1 19990811; EP 0728443 A2 19960828; EP 0728443 A3 19961023; EP 0728443 B1 20000809; EP 0920832 A2 19990609; EP 0920832 A3 19990721; FI 892282 A0 19890511; FI 892282 A 19891112; IL 90263 A0 19891215; IL 90263 A 19970415; JP 2885377 B2 19990419; JP H02104337 A 19900417; KR 0149847 B1 19990330; KR 890017532 A 19891216; US 4930511 A 19900605

DOCDB simple family (application)
EP 89304664 A 19890509; AU 3467289 A 19890511; CA 599253 A 19890510; DE 68929055 T 19890509; DE 68929239 T 19890509; EP 96103789 A 19890509; EP 96103815 A 19890509; EP 99101879 A 19890509; FI 892282 A 19890511; IL 9026389 A 19890511; JP 11850889 A 19890511; KR 890006235 A 19890510; US 19329588 A 19880511